Claims

1. A self-boosting electromechanical vehicle brake, having a friction brake lining which is movable in one direction of rotation of a brake body that can be braked with the vehicle brake, having an electromechanical actuating device with which the friction brake lining can be pressed against the brake body for braking, and having a mechanical self-boosting device which has a wedge and an abutment for the wedge and is operative in one direction of rotation of the brake body and which converts a frictional force, exerted on the friction brake lining by the rotating brake body upon braking, into a contact pressure that presses the friction brake lining against the brake body, and the wedge is urged in the direction of rotation of the brake body by the frictional force exerted on the friction brake lining by the rotating brake body upon braking and, by being braced on the abutment because of a wedge effect brings about the contact pressure on the friction brake lining, characterized in that the friction brake lining (26) has a slaving device (44) for the wedge (28), which slaves the wedge (28) to the friction brake lining (26) in the one direction of rotation (48) of the brake body (16) in which the self-boosting device (36) is operative; and that the vehicle brake (10) has a travel limiter (46, 54) for the friction brake lining (26), which limits a travel of the friction brake lining (26) in the opposite direction.

2. The self-boosting electromechanical vehicle brake in accordance with claim 1, characterized in that the vehicle brake (10) is a disk brake.

3. The self-boosting electromechanical vehicle brake in accordance with claim 1, characterized in that the actuating device (38) acts on the friction brake lining (26) indirectly via the wedge (28).

4. The self-boosting electromechanical vehicle brake in accordance with claim 1, characterized in that the vehicle brake (10) has a wear compensating device (50), which limits a displacement travel of the slaving device (44).

5. The self-boosting electromechanical vehicle brake in accordance with claim 4, characterized in that the vehicle brake (10) is a disk brake with a brake caliper (12), whose inside diameter is adjustable for wear compensation.

6. The self-boosting electromechanical vehicle brake in accordance with claim 4, characterized in that the travel limiter (54) for the friction brake lining (26) is adjustable for wear compensation in and/or counter to the direction of rotation (48) of the brake body (16).

7. The self-boosting electromechanical vehicle brake in accordance with claim 1, characterized in that the wedge (28) has a second wedge face (56), on which the friction brake lining (26) is braced.